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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,070	07/16/2003	Pavel Sebor	90043	1258
7	590 09/17/2004		EXAM	INER
Carl M. Napolitano Allen, Dyer, Doppelt, Milbrath & Gilchrist, P.A.			CHIN, RANDALL E	
	nge Avenue, Suite 1401		ART UNIT PAPER NUMBER	
P.O. Box 3791				
Orlando, FL	32802-3791		DATE MAILED: 09/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)). \		
Office Action Communication	10/621,070	SEBOR, PAVEL			
Office Action Summary	Examiner	Art Unit			
TI AGAILATE SANTA	Randall Chin	1744			
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	ith the correspondence addre	9SS		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above, is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after learned patent term adjustment. See 37 CFR 1.704(b).	.TION. 7 CFR 1.136(a). In no event, however, may a reation. ays, a reply within the statutory minimum of thir by statute. cause the application to become AF	eply be timely filed iy (30) days will be considered timely. THS from the mailing date of this comn	nunication.		
Status					
1) Responsive to communication(s) filed o	on .				
	☐ This action is non-final.				
3)☐ Since this application is in condition for	allowance except for formal matt	ers, prosecution as to the m	erits is		
closed in accordance with the practice of					
Disposition of Claims					
4) ☐ Claim(s) 1-54 is/are pending in the appl 4a) Of the above claim(s) is/are v 5) ☐ Claim(s) 1-37 is/are allowed. 6) ☐ Claim(s) 38-50 and 52-54 is/are rejected 7) ☐ Claim(s) 51 is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Ex	caminer.				
10) \boxtimes The drawing(s) filed on <u>12152003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the	correction is required if the drawing(s) is objected to. See 37 CFR	1.121(d).		
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-	152.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International if * See the attached detailed Office action for	uments have been received. uments have been received in Ap ne priority documents have been notes to the priority documents have been notes (PCT Rule 17.2(a)).	oplication No received in this National Sta	ge		
<u> </u>					
Attachment(s) 1) Notice of References Cited (RTO 202)	🗂 .				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9 	48) Paper No(s)	ımmary (PTO-413) /Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 09222003, 06142004.	SB/08) 5) Notice of Inf 6) Other:	ormal Patent Application (PTO-152	2)		

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DETAILED ACTION

Claim Objections

1. Claims 1, 2, 19, 20, 22, 24, 25, 27-29, 38-40, 44, 45, 50 and 52 are objected to because of the following informalities:

Claim 1, line 9, it appears "and" should be deleted.

Claim 2, line 3, it appears "slidably" should read -slidable-for clarity.

Claim 19, line 3, should "periphery" read –peripheral portion-- for consistency with respect to claim 13?

Claim 20, line 2, should "periphery" read –peripheral portion-- for consistency with respect to claim 13?

Claim 22, line 2, it appears "approached" should read -approaches-for clarity.

Claim 24, line 2, the recitation "extending outward for a center thereof" is awkwardly written.

Claim 25 incorrectly reads "250". Claim 25, line 2, should "periphery" read –peripheral portion-- for consistency with respect to claim 13?

Claim 27, lines 3-4, should "the suction source" read -a suction source--?

Claim 28, line 6, it appears "and" should be deleted.

Claim 29, line 3, it appears "slidably" should read -slidable—for clarity.

Claim 38, line 6, it appears "and" should be deleted.

Claim 39, line 4, should "the spaced relation" read –a spaced relation--?

Claim 40, line 3, should "periphery" read –peripheral portion-- for consistency with respect to claim 38?

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Claim 44, line 3, should "periphery" read –peripheral portion-- for consistency with respect to claim 38?

Claim 45, line 2, should "periphery" read –peripheral portion-- for consistency with respect to claim 38?

Claim 50, line 2, should "periphery" read –peripheral portion-- for consistency with respect to claim 38?

Claim 52, lines 3-4, should "the suction source" read —a suction source--?

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 38-43, 46-50 and 52-54 are rejected under 35 U.S.C. 102(b) as being anticipated by Atkins '794.

The patent to Atkins '794 discloses with respect to claim 38 an apparatus for cleaning surfaces submerged in a fluid, the apparatus comprising a housing having a flow passage extending longitudinally from an inlet to an outlet for a flow of fluid and debris therethrough (Fig. 11), the housing would also have a valve (not shown) operable within the flow passage for interrupting fluid flow therethrough during an oscillation thereof, a flexible disc or plate 2 carried proximate the inlet for engaging the

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surface to be cleaned, the plate having an upper surface, a lower surface that clearly would contact the surface to be cleaned, and a peripheral portion including a plurality of fins or tongues (Figs. 1, 5 and 6) extending outwardly thereabout, wherein each tongue includes a lower surface portion for contacting the surface to be cleaned and a portion 16 in a spaced relation with the surface to be cleaned during operation thus upwardly lifting an outermost periphery of the plate from the surface to be cleaned. Note, the "tongues" are being defined as the sections adjacent the hinge sections 13 on each side thereof (Fig. 3).

As for claim 39, there is further at least one rib defined by hinge sections 13 integrally formed with the upper surface of the plate wherein the tongues includes the ribs for reinforcing the portion of the tongue in spaced relation with the surface to be cleaned.

As for claim 40, there are a plurality of reinforcing elements defined by hinge sections 13 deemed integrally formed (at least in the final product) for upwardly contouring the peripheral portion from the surface to be cleaned.

As for claim 41, the reinforcing element comprises a rib 13 integrally formed (at least in the final product) with the upper surface of the plate, the rib extending radially outward while confined within the peripheral portion of the flexible plate.

As for claim 42, the reinforcing element 13 can also be termed a flange that partially extends along a peripheral edge of the tongue.

As for claim 43, the plate has a plurality of slots 17 outwardly extending from a center thereof.

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As for claim 46, the plurality of slots 17 are considered tapered at least in part (Fig. 10).

As for claim 47, the plurality of slots are tapered and can provide a smaller gap as the gap approaches the peripheral portion (merely relative).

As for claim 48, each slot extends along a first imaginary line centrally positioned between a second imaginary line passing centrally through each tongue.

As for claim 49, the lower surface includes a plurality of grooves extending radially outward at indented step sections 9 and lower sections 8 (Fig. 5).

As for claim 50, a portion of the grooves extends only partially between the center and periphery of the plate (Fig. 5).

As for claim 52 (which depends on claim 38 only), the plate has a plurality of holes 17 extending from the upper surface to the lower surface which can modify a suction provided by the plate during operation.

As for claim 53, the tongues extend radially outward from a center of the flexible plate.

As for claim 54, the portion in spaced relation with the surface to be cleaned comprises a contoured lower surface (bottom part of portion 16) extending from the lower surface portion contacting the surface to be cleaned.

4. Claims 38-45, 48 and 52-54 are rejected under 35 U.S.C. 102(b) as being anticipated by Rice '443.

Rice '443 teaches an apparatus for cleaning surfaces submerged in a fluid, the

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apparatus comprising a housing that has a flow passage extending longitudinally from an inlet to an outlet for a flow of fluid and debris therethrough (not shown but would be connected to footpad 16 as is typical and known in the art), the housing having a valve to enable the cleaner to move across a pool surface operable within the flow passage for interrupting fluid flow therethrough during an oscillation thereof (valve not shown but again is a typical and known arrangement in the art for maneuvering the cleaner across a pool surface), and a flexible disc or plate 10 carried proximate the inlet for engaging the surface to be cleaned, the plate having an upper surface, a lower surface that contacts the surface to be cleaned (Fig. 4), and a peripheral portion 20 including a plurality of tongues 30 radially extending thereabout, each tongue includes a lower surface portion at 42 (simply the bottom surfaces of theses tongues) for contacting the surface to be cleaned and a portion, for example, at 46 (Fig. 4) in a spaced relation with the surface to be cleaned during operation thus upwardly lifting an outermost periphery of the plate from the surface to be cleaned.

As for claim 39, there is further at least one rib defined merely by a fin 26 integrally formed (col. 4, lines 21-22) with the upper surface of the plate wherein the tongues 30 includes the ribs 26 for reinforcing the portion of the tongue in spaced relation with the surface to be cleaned.

Since claim 40 depends on claim 38 (and not on claim 39), the fins 26 can also be considered "reinforcing elements" integrally formed with the plate for upwardly contouring the peripheral portion from the surface to be cleaned.

As for claim 41, the reinforcing element comprises a "rib" 26 integrally formed

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with the upper surface of the plate, the rib extending radially outward while confined at least partially (Figs. 1 and 2) within the peripheral portion of the flexible plate.

As for claim 42, the reinforcing element 26 can also be termed a flange that partially extends along a peripheral edge of the tongue. Also, a plurality of these ribs or flanges extend along a peripheral edge of the tongues in the circumferential direction.

As for claim 43, the plate also has holes or slots 140 outwardly extending from a center thereof (Fig. 7).

As for claim 44, the plate further has a plurality of slits 120 with each slit outwardly extending from each one of the slots (Fig. 7) outward to the peripheral portion (at least in a relative sense).

As for claim 45, each slot extends through the periphery.

As for claim 48, each slot extends along a first imaginary line centrally positioned between a second imaginary line passing centrally through each tongue (Fig. 8).

As for claim 52, the plate has holes 120 extending from the upper surface to the lower surface which can modify a suction provided by the plate during operation.

As for claim 53, the plurality of tongues extend radially outward from a center of the flexible plate (Fig. 1).

As for claim 54, the portion in spaced relation with the surface to be cleaned comprises a contoured lower surface (bottom part of portion 46 in Fig. 2, for example) extending from the lower surface portion contacting the surface to be cleaned.

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Allowable Subject Matter

- 5. Claims 1-37 are allowed pending clarification of the objections set forth above.
 Claim 51 is objected to as being dependent upon a rejected base claim, but
 would be allowable if rewritten in independent form including all of the limitations of the
 base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communication from the Examiner should be directed to Randall Chin whose telephone number is (571) 272-1270. The Examiner can normally be reached on Monday through Thursday and every other Friday.

If attempts to reach the Examiner are unsuccessful, the Examiner's supervisor, Robert Warden, can be reached at (571) 272-1281. The number for Technology Center 1700 is (571) 272-1700.

The central fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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R. Chin

Randall Chin Primary Examiner Art Unit 1744